

What I claim is:

1. A computer-readable medium comprising computer-executable instructions for performing the steps of:

identifying a time window in which a delivery may be made to a customer;

determining a cost of delivery, said cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said cost of delivery with a threshold cost; and

responsive to said cost of delivery being less than said threshold cost, indicating that said time window is available for said delivery.

2. The computer-readable medium of Claim 1, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said cost of delivery being less than said threshold cost, displaying said time window to said customer.

3. The computer-readable medium of Claim 1, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said cost of delivery being equal to said threshold cost, indicating that said time window is not available for said delivery.

4. The computer-readable medium of Claim 1, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said delivery cost being greater than said threshold cost, indicating that said time window is not available for said delivery.

5. The computer-readable medium of Claim 1, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said delivery cost being greater than said threshold cost, withholding said time window from display to said customer.

6. The computer-readable medium of Claim 5, wherein said computer-readable medium further comprises computer-executable instructions for receiving said threshold cost from a user.

7. The computer-readable medium of Claim 5, wherein said cost of delivery comprises labor costs and transportation costs associated with said delivery.

8. The computer-readable medium of Claim 7, wherein said cost of delivery further comprises vehicle preparation costs, and vehicle loading costs associated with said delivery.

9. The computer-readable medium of Claim 5, wherein said time window is a first time window, said cost of delivery is a first cost of delivery, and said computer-readable medium further comprises computer-executable instructions for performing the steps of:

identifying a second time window in which said delivery may be made to a customer;

determining a second cost of delivery, said second cost of delivery comprising a cost of making said delivery to said customer within said second time window;

comparing said second cost of delivery with said threshold cost; and

responsive to said second cost of delivery being less than said threshold cost, displaying said second time window to said customer.

10. The computer-readable medium of Claim 5, wherein said time window is a first time window, said cost of delivery is a first cost of delivery, and said computer-readable medium further comprises computer-executable instructions for performing the steps of:

identifying a second time window in which said delivery may be made to a customer;

determining a second cost of delivery, said second cost of delivery comprising a cost of making said delivery to said customer within said second time window;

comparing said second cost of delivery with said threshold cost; and

responsive to said second cost of delivery being less than said threshold cost, indicating that said second time window is available for said delivery.

11. The computer-readable medium of Claim 10, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said second cost of delivery being equal to said threshold cost, indicating that said second time window is not available for said delivery.

12. The computer-readable medium of Claim 10, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said second cost of delivery being equal to said threshold cost, withholding said second time window from display to said customer.

13. The computer-readable medium of Claim 10, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said second delivery cost being greater than said threshold cost, indicating that said second time window is not available for said delivery.

14. The computer-readable medium of Claim 10, wherein said computer-readable medium further comprises computer-executable instructions for receiving said threshold cost from a user.

15. The computer-readable medium of Claim 10, wherein said second cost of delivery comprises labor costs, transportation costs, vehicle preparation costs, and vehicle loading costs.

16. The computer-readable medium of Claim 1, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle being already scheduled to make at least one confirmed delivery within said time window, and wherein said step of identifying said time window comprises the step of determining whether said delivery vehicle can make both said at least one confirmed delivery and said requested delivery within said time window.

17. The computer-readable medium of Claim 1, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle having a delivery capacity, and wherein said step of identifying said time window comprises the step of determining whether said delivery capacity of said delivery vehicle would be exceeded by said requested delivery.

18. The computer-readable medium of Claim 2, wherein said step of displaying said time window to said customer comprises displaying said time window to said customer for a predetermined period of time, and further including the steps of:

determining an updated cost of delivery, said updated cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said updated cost of delivery with said threshold cost; and

in response to said updated cost of delivery being less than said threshold cost, displaying said time window to said customer.



19. The computer-readable medium of Claim 18, wherein said computer-readable medium further comprises computer-executable instructions for, in response to said updated cost of delivery being equal to said threshold cost, withholding said time window from display to said customer.

20. The computer-readable medium of Claim 19, wherein said computer-readable medium further comprises computer-executable instructions for, in response to said updated cost of delivery being greater than said threshold cost, withholding said time window from display to said customer.

21. A computer-readable medium comprising computer-executable instructions for performing the steps of:

identifying a time window in which a delivery may be made to a customer, said time window being associated with a delivery wave delivery capacity;

comparing a portion of said delivery wave delivery capacity that has been allocated to deliveries with a threshold value;

responsive to said portion of said delivery wave delivery capacity that has been allocated to deliveries being greater than said threshold value, performing the steps of:

(a) determining a cost of delivery, said cost of delivery comprising a cost of making said delivery to said customer within said time window;

(b) comparing said cost of delivery with a threshold cost; and

(c) responsive to said cost of delivery being less than said threshold cost, indicating that said time window is available for said delivery.

22. The computer-readable medium of Claim 21, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said cost of delivery being less than said threshold cost, displaying said time window to said customer.

23. The computer-readable medium of Claim 22, wherein said computer-readable medium further comprises computer-executable instructions for, in response to said cost of delivery being equal to said threshold cost, indicating that said time window is not available for said delivery.

24. The computer-readable medium of Claim 21, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle being already scheduled to make at least one confirmed delivery within said time window, and wherein said step of identifying said time window comprises the step of determining whether said delivery vehicle can make both said at least one confirmed delivery and said requested delivery within said time window.

25. The computer-readable medium of Claim 21, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle having a delivery capacity, and wherein said step of identifying said time window comprises the step of determining whether said delivery capacity of said delivery vehicle would be exceeded by said requested delivery.

26. The computer-readable medium of Claim 21, wherein said cost of delivery comprises labor costs and transportation costs associated with making said delivery.

27. The computer-readable medium of Claim 26, wherein said cost of delivery further comprises vehicle preparation costs, and vehicle loading costs associated with making said delivery.

28. A computer-readable medium comprising computer-executable instructions for performing the steps of:

identifying a time window in which a delivery may be made to a customer;

identifying a customer classification associated with said customer;

determining a cost of delivery, said cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said cost of delivery with a first threshold cost if said order classification corresponds to a first customer classification;

comparing said cost of delivery with a second threshold cost if said order classification corresponds to a second customer classification;

indicating that said time window is available for said delivery if either:

(a) said cost of delivery is greater than said first threshold cost, and said customer classification corresponds to said first customer classification; or

(b) said cost of delivery is greater than said second threshold cost, and said order classification corresponds to said second customer classification.

29. The computer-readable medium of Claim 28, wherein said customer classification corresponds to a size of an order placed by said customer.

30. The computer-readable medium of Claim 28, wherein said cost of delivery comprises labor costs and transportation costs associated with making said delivery.

31. The computer-readable medium of Claim 30, wherein said cost of delivery further comprises vehicle preparation costs, and vehicle loading costs associated with making said delivery.

32. A method of displaying delivery time windows, said method comprising the steps of:

identifying a time window in which a delivery may be made to a customer;

determining a cost of delivery, said cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said cost of delivery with a threshold cost; and

responsive to said cost of delivery being less than said threshold cost, indicating that said time window is available for said delivery.

33. The method of Claim 32, further comprising the step of, responsive to said cost of delivery being less than said threshold cost, displaying said time window to said customer.



34. The method of Claim 32, further comprising the step of, responsive to said cost of delivery being equal to said threshold cost, indicating that said time window is not available for said delivery.

35. The method of Claim 32, further comprising the step of, responsive to said cost of delivery being equal to said threshold cost, withholding said time window from display to said customer.

36. The method of Claim 32, wherein said method further comprises the step of, responsive to said delivery cost being greater than said threshold cost, indicating that said time window is not available for said delivery.

37. The method of Claim 36, wherein said time window is a first time window, said cost of delivery is a first cost of delivery, and said method further comprises the steps of:

identifying a second time window in which said delivery may be made to a customer;

determining a second cost of delivery, said second cost of delivery comprising a cost of making said delivery to said customer within said second time window;

comparing said second cost of delivery with said threshold cost; and

responsive to said second cost of delivery being less than said threshold cost, indicating that said second time window is available for said delivery.

38. The method of Claim 37, wherein said method further comprises the step of, responsive to said second delivery cost being greater than said threshold cost, indicating that said second time window is not available for said delivery.

39. The method of Claim 32, responsive to said delivery cost being greater than said threshold cost, withholding said time window from display to said customer.

40. The method of Claim 32, wherein said method further comprises the step of receiving said threshold cost from a user.

41. The method of Claim 32, wherein said cost of delivery comprises labor costs, transportation costs associated with making said delivery.

42. The method of Claim 32, wherein said cost of delivery further comprises vehicle preparation costs and vehicle loading costs associated with making the delivery.

43. The method of Claim 36, wherein said time window is a first time window, said cost of delivery is a first cost of delivery, and said method further comprises the steps of:

identifying a second time window in which said delivery may be made to a customer;

determining a second cost of delivery, said second cost of delivery comprising a cost of making said delivery to said customer within said second time window;

comparing said second cost of delivery with said threshold cost; and

responsive to said second cost of delivery being less than said threshold cost, displaying said second time window to said customer.

44. The method of Claim 43, wherein said method further comprises the step of, responsive to said second cost of delivery being equal to said threshold cost, withholding said second time window from display to said customer.

45. The method of Claim 43, wherein said method further comprises the step of, responsive to said second delivery cost being greater than said threshold cost, withholding said second time window from display to said customer.

46. The method of Claim 43, wherein said second cost of delivery comprises labor costs and transportation costs associated with making said delivery.

47. The method of Claim 32, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle being already scheduled to make at least one confirmed delivery within said time widow, and wherein said step of identifying said time window comprises the step of determining whether said delivery vehicle can make both said at least one confirmed delivery and said requested delivery within said time window.

48. The method of Claim 32, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle having a delivery capacity, and wherein said step of identifying said time window comprises the step of determining whether said delivery capacity of said delivery vehicle would be exceeded by said requested delivery.

49. The method of Claim 32, wherein said step of displaying said time window to said customer comprises displaying said time window to said customer for a predetermined period of time, and further including the steps of:

determining an updated cost of delivery, said updated cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said updated cost of delivery with said threshold cost; and

responsive to said updated cost of delivery being less than said threshold cost, displaying said time window to said customer.

50. The method of Claim 49, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said updated cost of delivery being equal to said threshold cost, withholding said time window from display to said customer.

51. The method of Claim 50, wherein said computer-readable medium further comprises computer-executable instructions for, responsive to said updated cost of delivery being greater than said threshold cost, withholding said time window from display to said customer.



52. A method of determining whether to offer to make a requested delivery within a particular delivery time window, said method comprising the steps of:

determining a cost factor associated with making said requested delivery within said particular delivery time window;

determining a customer factor associated with a customer requesting said requested delivery; and

using both said cost factor and said customer factor to determine whether to offer to make said requested delivery within said particular delivery time window.

53. The method of claim 52, wherein said step of using both said cost factor and said customer factor includes the steps of:

- identifying a threshold “display window” value;
- combining said cost factor and said customer factor to derive a combined delivery factor; and
- in response to said combined delivery factor being greater than said “display window” value, determining to offer to make said requested delivery within said particular delivery time window.

54. The method of Claim 53, further including the step of, in response to said combined delivery factor being less than said “display window” value, determining to not offer to make said requested delivery within said particular delivery time window.

55. The method of Claim 54, wherein said step of combining said cost factor and said customer factor comprises adding said cost factor and said customer factor.

56. The method of Claim 52, wherein said step of using both said cost factor and said customer factor includes the steps of:

identifying a threshold “offer window” value;

combining said cost factor and said customer factor to derive a combined delivery factor; and

in response to said combined delivery factor being less than said “offer window” value, determining to offer to make said requested delivery within said particular delivery time window.

57. The method of Claim 56, further including the step of, in response to said combined delivery factor being greater than said “offer window” value, determining to not offer to make said requested delivery within said particular delivery time window.

58. The method of Claim 56, wherein said step of combining said cost factor and said customer factor comprises adding said cost factor and said customer factor.

59. A system for generating a concrete mix design, said system comprising:

a central processing unit;

a memory coupled to said central processing unit; and

a display screen coupled to said central processing unit,

said central processing unit being configured for:

identifying a time window in which a delivery may be made to a customer;

determining a cost of delivery, said cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said cost of delivery with a threshold cost; and

responsive to said cost of delivery being less than said threshold cost, indicating that said time window is available for said delivery.

60. The system of Claim 59, wherein said central processing unit is further configured for, responsive to said cost of delivery being less than said threshold cost, displaying said time window to said customer.

61. The system of Claim 59, wherein said central processing unit is further configured for, responsive to said cost of delivery being equal to said threshold cost, indicating that said time window is not available for said delivery.

62. The system of Claim 59, wherein said central processing unit is further configured for, responsive to said delivery cost being greater than said threshold cost, indicating that said time window is not available for said delivery.

63. The system of Claim 59, wherein said central processing unit is further configured for, responsive to said delivery cost being greater than said threshold cost, withholding said time window from display to a customer.

64. The system of Claim 63, wherein said central processing unit is further configured for receiving said threshold cost from a user.

65. The system of Claim 63, wherein said time window is a first time window, said cost of delivery is a first cost of delivery, and said central processing unit is further configured for:

identifying a second time window in which said delivery may be made to a customer;

determining a second cost of delivery, said second cost of delivery comprising a cost of making said delivery to said customer within said second time window;

comparing said second cost of delivery with said threshold cost; and

responsive to said second cost of delivery being less than said threshold cost, displaying said second time window to said customer.

66. The system of Claim 65, wherein said central processing unit is further configured for, in response to said second cost of delivery being equal to said threshold cost, withholding said second time window from display to said customer.

67. The system of Claim 65, wherein said central processing unit is further configured for, in response to said second delivery cost being greater than said threshold cost, indicating that said second time window is not available for said delivery.

68. The system of Claim 65, wherein said central processing unit is further configured for, in response to said second delivery cost being greater than said threshold cost, withholding said second time window from display to said customer.

69. The system of Claim 59, wherein said cost of delivery comprises labor costs and transportation costs associated with said delivery.

70. The system of Claim 69, wherein said cost of delivery further comprises vehicle preparation costs, and vehicle loading costs associated with said delivery.



71. The system of Claim 59, wherein said time window is a first time window, said cost of delivery is a first cost of delivery, and said central processing unit is further configured for:

identifying a second time window in which said delivery may be made to a customer;

determining a second cost of delivery, said second cost of delivery comprising a cost of making said delivery to said customer within said second time window;

comparing said second cost of delivery with said threshold cost; and

responsive to said second cost of delivery being less than said threshold cost, indicating that said second time window is available for said delivery.

72. The system of Claim 59, wherein said central processing unit is further configured for receiving said threshold cost from a user.

73. The system of Claim 59, wherein said second cost of delivery comprises labor costs, transportation costs, vehicle preparation costs, and vehicle loading costs.

74. The system of Claim 59, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle being already scheduled to make at least one confirmed delivery within said time widow, and wherein said step of identifying said time window comprises the step of determining whether said delivery vehicle can make both said at least one confirmed delivery and said requested delivery within said time window.

75. The system of Claim 59, wherein said delivery is a requested delivery and said time window is associated with a delivery vehicle, said delivery vehicle having a delivery capacity, and wherein said step of identifying said time window comprises the step of determining whether said delivery capacity of said delivery vehicle would be exceeded by said requested delivery.

76. The system of Claim 59, wherein the step of displaying said time window to said customer comprises displaying said time window to said customer for a predetermined period of time, and further including the steps of:

determining an updated cost of delivery, said updated cost of delivery comprising a cost of making said delivery to said customer within said time window;

comparing said updated cost of delivery with said threshold cost; and

in response to said updated cost of delivery being less than said threshold cost, displaying said time window to said customer.

77. The system of Claim 76, wherein said central processing unit is further configured for, in response to said updated cost of delivery being equal to said threshold cost, withholding said time window from display to said customer.

78. The system of Claim 76, wherein said central processing unit is further configured for, in response to said updated cost of delivery being greater than said threshold cost, withholding said time window from display to said customer.